

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (currently amended) A scroll compressor in which an ~~the~~ interior of a closed vessel is divided into a compression chamber on an ~~the~~ upper side, which has a refrigerant compressing section, and a motor chamber on a ~~the~~ lower side, which has a motor and is included in a part of a circulating path for refrigerant gas, by a main frame; in said motor chamber, there are provided, as means for causing a motor upper space to communicate with a motor lower space, first communicating means formed on an ~~the~~ outer periphery side of a stator of said motor and second communicating means formed on a ~~the~~ rotor side of said motor or on a ~~the~~ rotor rotating shaft side; and a radial fan and a balancer that rotate together with said rotor are provided on an ~~the~~ upper end side of said rotor, so that some of said refrigerant gas is sucked from said motor lower space via said second communicating means, and is discharged into said motor upper space so as to be circulated in said closed vessel by said radial fan, wherein

said radial fan has a plurality of blades formed radially in a ~~the~~ range of approximately 180° opposed to said balancer so as to have a height smaller than ~~the~~ a height of said balancer, and a fan cap including a fan cover portion covering ~~the~~ top faces of said blades and an engagement portion fixed to the upper end side of said rotor.

2. (currently amended) The scroll compressor according to claim 1, wherein said fan cap is arranged above said second communicating means, and said second communicating means communicates with said motor upper

space via the blades.

3. (currently amended) The scroll compressor according to claim 1, wherein said fan cap is formed by one substantially disk-shaped metallic sheet having an insertion hole for said rotor rotating shaft in a ~~the~~ center thereof, almost a half of which is used as said fan cover portion and ~~the~~ a remaining half of which is used as said engagement portion.

4. (previously presented) The scroll compressor according to claim 1, wherein said fan cap has a connecting portion for integrally connecting said fan cover portion and said engagement portion in a step form so that said fan cover portion and said engagement portion are located at positions having different heights.

5. (currently amended) The scroll compressor according to claim 1, wherein in ~~the~~ a case where said rotor is a cage rotor, and the blades of said radial fan are formed integrally with an end ring of said cage rotor, while said balancer is formed separately, the engagement portion of said fan cap is fixed to ~~the~~ an upper end portion of said rotor together with said balancer in a state of being held between said balancer and the upper end portion of said rotor.

6. (currently amended) The scroll compressor according to claim 1, wherein in ~~the~~ a case where said rotor is a cage rotor, and both of the blades of said radial fan and said balancer are formed integrally with an end ring of said cage rotor, the engagement portion of said fan cap is fixed to an ~~the~~ upper end portion of said balancer in a state of being put on said balancer.

7. (currently amended) The scroll compressor according to claim 1, wherein in ~~the~~ a case where said rotor is a permanent magnet rotor, and the blades of said radial fan are formed integrally with an end plate installed to said magnet rotor, while said balancer is formed separately, the engagement portion of said fan cap is fixed to ~~the~~ an upper end portion of said rotor together with said balancer and said end plate in a state of being held between said balancer and said end plate.

8. (currently amended) The scroll compressor according to claim 1, wherein in ~~the~~ a case where said rotor is a permanent magnet rotor, and both of the blades of said radial fan and said balancer are formed integrally with an end plate installed to said magnet rotor, the engagement portion of said fan cap is fixed to ~~the~~ an upper end portion of said balancer in a state of being put on said balancer.

9. (currently amended) The scroll compressor according to claim 1, wherein the blades of said radial fan comprises ~~consists of~~ fan blades formed by bending a metallic sheet, which has an insertion hole for said rotor rotating shaft in a ~~the~~ center thereof, into a waveform in a ~~the~~ range of approximately 180° in a ~~the~~ circumferential direction with said insertion hole being the center.

10. (currently amended) The scroll compressor according to claim 9, wherein the ~~an~~ engagement portion which is fixed to an ~~the~~ upper end portion of said rotor is provided in a ~~the~~ range of remaining 180° of said metallic sheet, and said engagement portion is formed with

Serial No. 10/798,443

a split groove which divides said engagement portion into two.

11-13. (canceled)